

1045

FIG. 1A

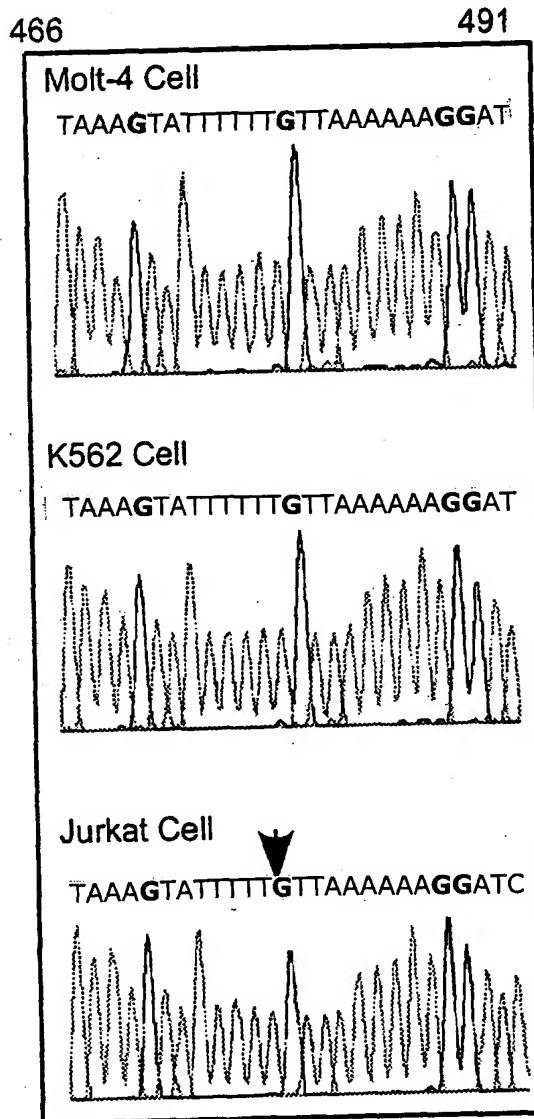


FIG. 1B

Human K562 cells and Molt-4 Cells

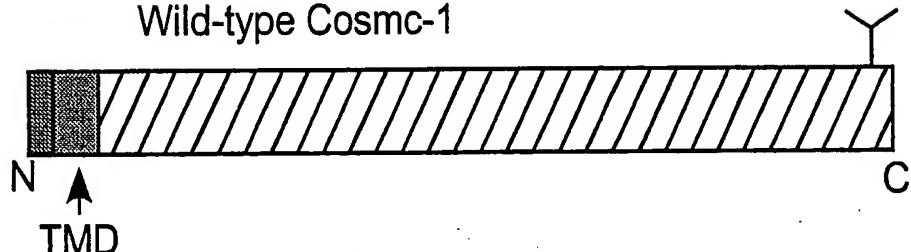
466
483

Human Jurkat Cells *T-deletion*

T-deletion

FIG. 1C

Wild-type Cosmc-1



Mutated Cosmc-1 (Jurkat)

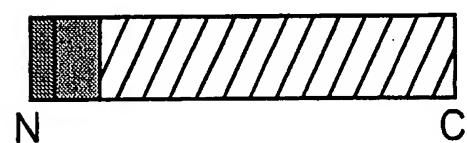


FIG. 1D

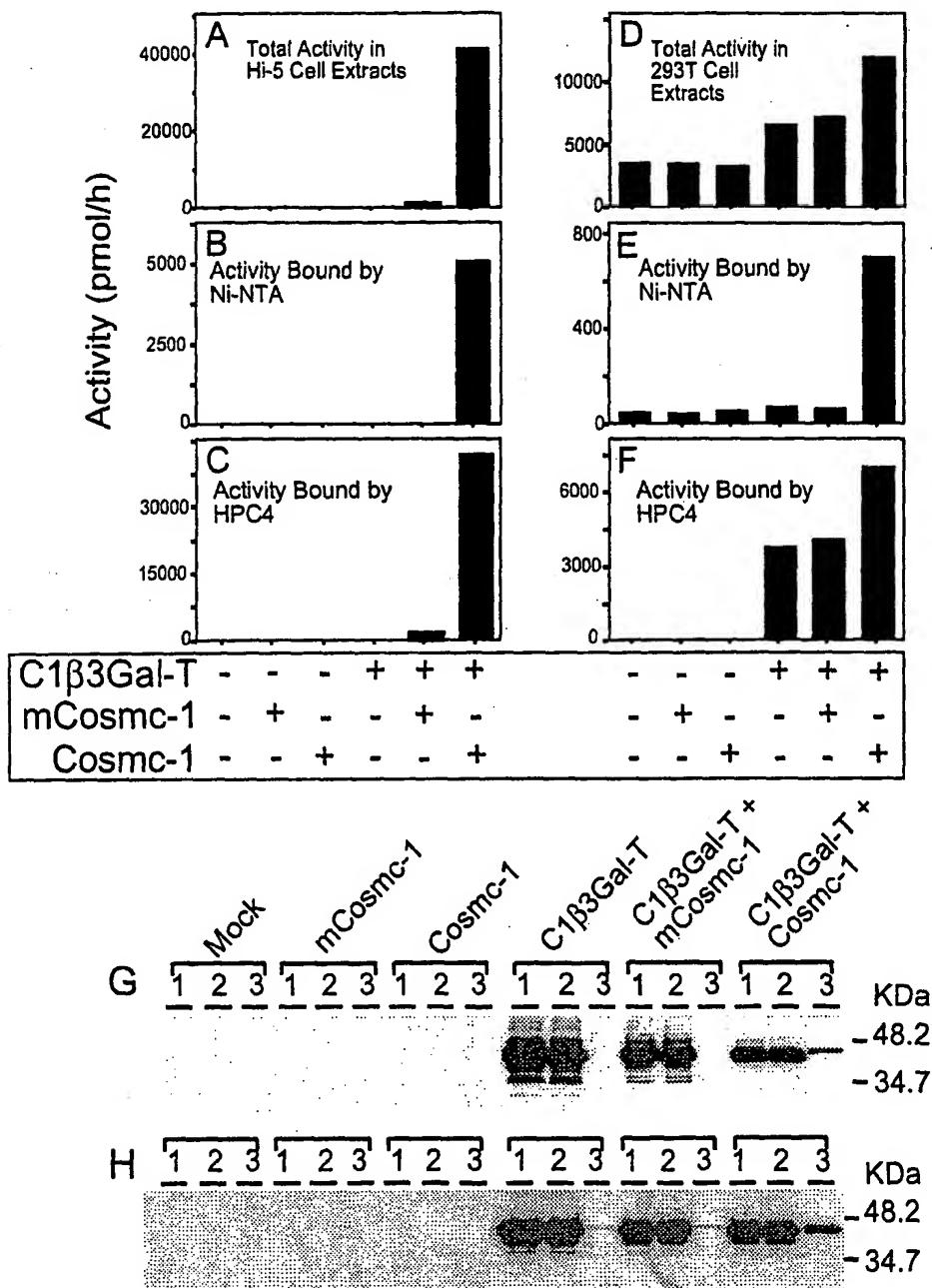


FIG. 2

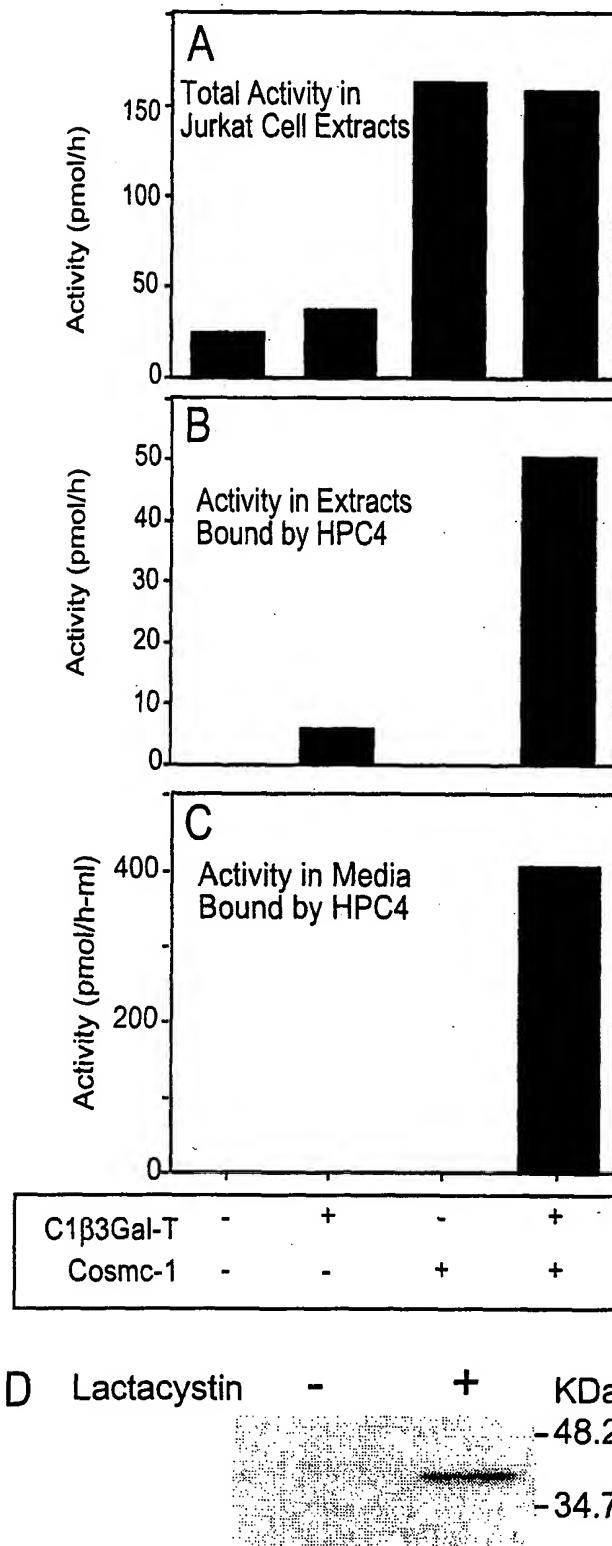
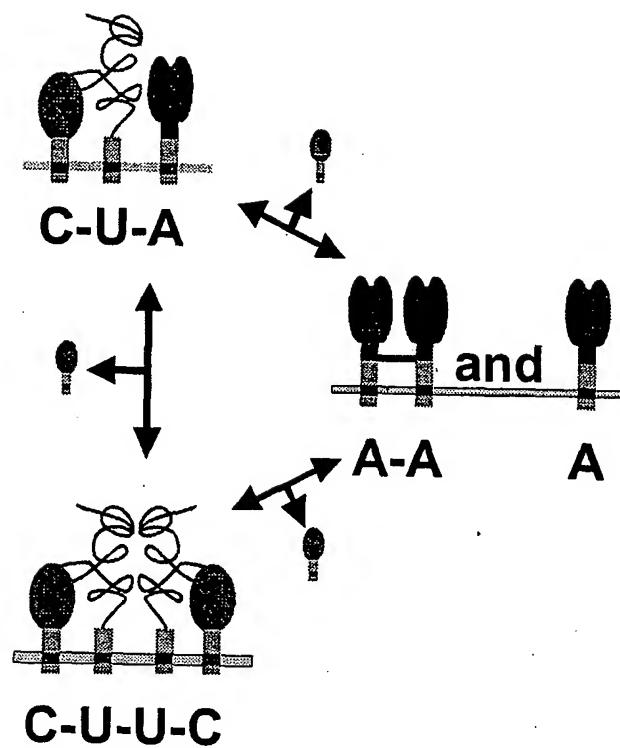


FIG. 3



	A = Active C1β3GalT
	U = Inactive C1β3GalT
	C = Cosmc-1

FIG. 4

FIG. 5

ClustalW Formatted Alignments

Express Mail No.: EV272908833US Deposited: 09/12/2003
Title: CORE 1-63-GALACTOSYLTRANSFERASE SPECIFIC
MOLECULAR CHAPERONES, NUCLEIC ACIDS, AND METHODS
OF USE THEREOF
Inventors: Richard D. Cummings et al. Group: Unknown
Filed: Herewith Examiner: Unknown
Agent: Christopher W. Corbett Dkt. No. 7148.003
SHEET 7 OF 7 Formal Drawings

H. sapiens	1	M L S E S S S F L K G V M L G S I F C A L I T M L G H I R I G H G N R M H H E 40
R. norvegicus	1	M L S E S S S F L K G V M L G S I F C A L I T M L G H I R I G H G N R M H H E 38
M. musculus	1	M L S E S S S F L K G V M L G S I F C A L I T M L G H I R I G H G N R M H H E 38
Danio rerio	1	M M S E G S S F M K G M I L G G I F C L I M S F F E T F N P G T H S E G H N H L 40
H. sapiens	41	H H H L Q A P N K E D I L K I S E D E R M E L S K S F R V Y C I I L V K P K D V 80
R. norvegicus	39	H H H L Q A P N K D D I L K I S E T E R M E L S K S F Q V Y C I V L V K P K D V 78
M. musculus	39	H H H L Q A P N K D D I S K I S E A E R M E L S K S F R V Y C I V L V K P K D V 78
Danio rerio	41	H H H L K P V S K D E L Q K L S E S Q M S E F A M Q V R V Y C I M V T P K L L 80
H. sapiens	81	S L W A A V K E T W T K H C D K A E F F S S E N V K V F E S I N M D T N D M W L 120
R. norvegicus	79	S L W A A V K E T W T K H C D K A E F F S S E N V K V F E S I N M D T N D M W L 118
M. musculus	79	S L W A A V K E T W T K H C D K A E F F S S E N V K V F E S I N M D T N D M W L 118
Danio rerio	81	V H W A T A N D I W S K H C D K S V F Y T S E A S K A L D A V D L Q E Q D E W T 120
H. sapiens	121	M M R K A Y K Y A F D K Y R D Q Y N W F F L A R P T T F A I I E N L K Y F L L K 160
R. norvegicus	119	M M R K A Y K Y A Y D K Y K D Q Y N W F F L A R P T T F A V I E N L K Y F L L R 158
M. musculus	119	M M R K A Y K Y A Y D Q Y R D Q Y N W F F L A R P T T F A V I E N L K Y F L L K 158
Danio rerio	121	R L R K A I Q H A Y E N A G D L H - W F F T I A R P T T F A I I E N L K Y L V L D 159
H. sapiens	161	K D P S Q P F Y L G H T I K S G D L E Y V G M E G G I V L S V E S M M K R L N S L 200
R. norvegicus	159	K D P S Q P F Y L G H T V K S G D L E Y V S V D G G I V L S I E S M M K R L N G L 198
M. musculus	159	K D Q S Q P F Y L G H T V K S G D L E Y V S V D G G I V L S I E S M M K R L N S L 198
Danio rerio	160	K D P S Q P F Y T G H T E K S G E L D Y V E Y D S G I V L S Y E A M R R L M E V 199
H. sapiens	201	L N I P E K C P E Q G G M I W K I S E D K Q L A V C L K Y A G V F A E N A E D A 240
R. norvegicus	199	L S V P E K C P E Q G G M I W K I S E D K Q L A V C L K Y A G V F A E N A E D A 238
M. musculus	199	L S V P E K C P E Q G G M I W K I S E D K Q L A V C L K Y A G V F A E N A E D A 238
Danio rerio	200	F K D E D K C P E R G R A L W K M S E E K Q L A T C L K Y S G V F A E N G E D A 239
H. sapiens	241	D G K D V F N T K S V G L S I K E A M T Y H P N Q V V E G C C S D M A V T F N G 280
R. norvegicus	239	D G K D V F N T K S V G L F I K E A M T N Q P N Q V V E G C C S D M A V T F N G 278
M. musculus	239	D G K D V F N T K S V G L F I K E A M T N Q P N Q V V E G C C S D M A V T F N G 278
Danio rerio	240	Q G K G L F N K K S V S S L I S D S I S Q N P G D V V E A C C S D M A I T F A G 279
H. sapiens	281	L T P N Q M H V M M Y G V Y R L R A F G H I F N D A L V F L P P N G S D M A I T F N G 318
R. norvegicus	279	L T P N Q M H V M M Y G V Y R L R A F G H V F N D A L V F L P P N G S E N D 316
M. musculus	279	L T P N Q M H V M M Y G V Y R L R A F G H V F N D A L V F L P P N G S E N D 316
Danio rerio	280	M S P S Q I Q V L M Y G V Y R L R P Y G H D F H D S L T F L P P R L 313